



421808
SEQUENCE LISTING

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Wolfgang, Curt
The Government of the United States of America
as represented by the Secretary of the
Department of Health and Human Services

<120> T-Cell Receptor Gamma Alternate Reading Frame Protein,
(TARP) and Uses Thereof

<130> 4239-61854-01

<140> 10/031,158
<141> 2002-01-11

<150> PCT/US00/19039
<151> 2000-07-12

<150> US 60/157,471
<151> 1999-10-01

<150> US 60/143,560
<151> 1999-07-13

<160> 34

<170> PatentIn Ver. 2.1

<210> 1
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 1
aacttggaag ggrgaacraa gtcagtc 27

<210> 2
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
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agtactaaaa cgctgtcaaa aacagcc 27

<210> 3
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR primer

<400> 3
 ttggacttgg attatcaaaa gtgg 24

<210> 4
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:PCR primer

<400> 4
 ttgggcagtt ggaacaacct gaaa 24

<210> 5
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:PCR primer

<400> 5
 gataaacaac ttgatgcaga tgtttccc 28

<210> 6
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:PCR primer

<400> 6
 gggaaacatc tgcacaaagt tgtttatc 28

<210> 7
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:PCR primer

<400> 7
 ctggagcttt gtttcagcaa ttgaagg 27

<210> 8
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:PCR primer

<400> 8
 ctcaagaaga caaaggtatg ttccagc 27

<210> 9
 <211> 25
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 ttatgatttc tctccattgc agcag 25

<210> 10
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 <212> DNA
 <213> Artificial Sequence
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 <400> 10
 gaagttacta tgagcttagt ccctt 25

<210> 11
 <211> 24
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 <400> 11
 aagctttggt ccgggaccaa atac 24

<210> 12
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 <223> Description of Artificial Sequence:PCR primer
 <400> 12
 tacctgtgac aacaagtgtt gttc 24

<210> 13
 <211> 1027
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> CDS
 <222> (74)..(247)
 <223> Coding region for PS-TCR gamma 1 polypeptide
 (TARP)
 <220>
 <221> CDS

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<222> (247)..(579)

<223> Coding region for PS-TCR gamma 2 polypeptide (deduced amino acid sequence not displayed along with DNA sequence, due to overlapping CDS's)

<400> 13

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gggcaagagt tgggcaaaaa aatcaaggta tttggtcccg gaacaaagct tatcattaca 60
gataaacaac ttg atg cag atg ttt ccc cca agc cca cta ttt ttc ttc      109
              Met Gln Met Phe Pro Pro Ser Pro Leu Phe Phe Phe
              1              5              10

ctt caa ttg ctg aaa caa agc tcc aga agg ctg gaa cat acc ttt gtc      157
Leu Gln Leu Leu Lys Gln Ser Ser Arg Arg Leu Glu His Thr Phe Val
              15              20              25

ttc ttg aga aat ttt tcc ctg atg tta tta aga tac att ggc aag aaa      205
Phe Leu Arg Asn Phe Ser Leu Met Leu Leu Arg Tyr Ile Gly Lys Lys
              30              35              40

aga aga gca aca cga ttc tgg gat ccc agg agg gga aca cca      247
Arg Arg Ala Thr Arg Phe Trp Asp Pro Arg Arg Gly Thr Pro
              45              50              55

tgaagactaa cgacacatac atgaaattta gctggttaac ggtgccagaa aagtcactgg 307
acaagaaca cagatgtatc gtcagacatg agaataataa aaacggagtt gatcaagaaa 367
ttatctttcc tccaataaag acggatgtca tcacaatgga tcccaaagac aattgttcaa 427
aagatgcaaa tgatacacta ctgctgcagc tcacaaacac ctctgcatat tacatgtacc 487
tcctcctgct cctcaagagt gtggtctatt ttgccatcat cacctgctgt ctgcttagaa 547
gaacggcttt ctgctgcaat ggagagaaat cataacagac ggtggcacia ggaggccatc 607
ttttcctcat cggttattgt ccctagaagc gtcttctgag gatctagttg ggctttcttt 667
ctggggtttgg gccatttcag ttctcatgtg tgtactattc tatcattatt gtataacggg 727
tttcaaacca gtgggcacac agagaacctc actctgtaat aacaatgagg aatagccacg 787
gcatctcca gcaccaatct ctccatgttt tccacagctc ctccagccaa cccaaatagc 847
gcctgctata gtgtagacat cctgcggctt ctagccttgt ccctctctta gtgttcttta 907
atcagataac tgcctggaag cttttcattt tacacgccct gaagcagtct tctttgctag 967
ttgaattatg tgggtgtgttt ttccgtaata agcaaaataa atttaaaaaa atgaaaagtt 1027
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<210> 14

<211> 58

<212> PRT

<213> Homo sapiens

<400> 14

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Met Gln Met Phe Pro Pro Ser Pro Leu Phe Phe Phe Leu Gln Leu Leu
  1              5              10              15

Lys Gln Ser Ser Arg Arg Leu Glu His Thr Phe Val Phe Leu Arg Asn
      20              25              30
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Phe Ser Leu Met Leu Leu Arg Tyr Ile Gly Lys Lys Arg Arg Ala Thr
35 40 45

Arg Phe Trp Asp Pro Arg Arg Gly Thr Pro
50 55

<210> 15
<211> 111
<212> PRT
<213> Homo sapiens

<400> 15
Met Lys Thr Asn Asp Thr Tyr Met Lys Phe Ser Trp Leu Thr Val Pro
1 5 10 15
Glu Lys Ser Leu Asp Lys Glu His Arg Cys Ile Val Arg His Glu Asn
20 25 30
Asn Lys Asn Gly Val Asp Gln Glu Ile Ile Phe Pro Pro Ile Lys Thr
35 40 45
Asp Val Ile Thr Met Asp Pro Lys Asp Asn Cys Ser Lys Asp Ala Asn
50 55 60
Asp Thr Leu Leu Leu Gln Leu Thr Asn Thr Ser Ala Tyr Tyr Met Tyr
65 70 75 80
Leu Leu Leu Leu Leu Lys Ser Val Val Tyr Phe Ala Ile Ile Thr Cys
85 90 95
Cys Leu Leu Arg Arg Thr Ala Phe Cys Cys Asn Gly Glu Lys Ser
100 105 110

<210> 16
<211> 16
<212> PRT
<213> Homo sapiens

<220>
<223> Partial amino acid sequence of TARP (residues
42-57)

<400> 16
Gly Lys Lys Arg Arg Ala Thr Arg Phe Trp Asp Pro Arg Arg Gly Thr
1 5 10 15

<210> 17
<211> 16
<212> PRT
<213> Dictyostelium discoideum

<220>
<223> Partial amino acid sequence of Tup1 (dTup,
residues 521-536)

<400> 17
Gly Ser Lys Asp Arg Ser Val Gln Phe Trp Asp Pro Arg Asn Gly Thr
1 5 10 15

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<210> 18
<211> 16
<212> PRT

<213> Saccharomyces cerevisiae

<220>

<223> Partial amino acid sequence of Tup1 (yTup1,
residues 626-660)

<400> 18

Gly Ser Lys Asp Arg Gly Val Leu Phe Trp Asp Lys Lys Ser Gly Asn
1 5 10 15

<210> 19

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR primer

<400> 19

ttacagataa acaacttgat acagatgttt cccccaagcc c 41

<210> 20

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR primer

<400> 20

gggcttgggg gaaacatctg tatcaagttg tttatctgt 39

<210> 21

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR primer

<400> 21

gataaacaac ttgatgcaga tatttcccc aagccc 36

<210> 22

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR primer

<400> 22

gggcttgggg gaaatatctg catcaagttg tttatc 36

<210> 23
 <211> 36
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:PCR primer

 <400> 23
 gataaacaac ttgatacaga tatttccccc aagccc 36

 <210> 24
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 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:PCR primer

 <400> 24
 gggcttgggg gaaatatctg tatcaagttg tttatc 36

 <210> 25
 <211> 38
 <212> DNA
 <213> Artificial Sequence

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 <400> 25
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 <210> 26
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 <223> Description of Artificial Sequence:PCR primer

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<223> Description of Artificial Sequence:PCR primer

<400> 28

ttatgatttc tctccattgc agcag

25

<210> 29

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR primer

<400> 29

aagctttgtt ccgggaccaa atac

24

<210> 30

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR primer

<400> 30

atctggcacc acaccttcta caatgagctg cg

32

<210> 31

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR primer

<400> 31

cttcatactc ctgcttgctg atccacatct gc

32

<210> 32

<211> 4

<212> PRT

<213> Homo sapiens

<220>

<223> Protein kinase phosphorylation site

<400> 32

Arg Arg Ala Thr

1

<210> 33

<211> 4

<212> PRT

<213> Homo sapiens

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<220>

<223> Protein kinase phosphorylation site

<400> 33

Arg Arg Gly Thr
1